

(128)

1-14-03

SC

IN THE UNITED STATES DISTRICT COURT
FOR THE MIDDLE DISTRICT OF PENNSYLVANIA

JACK MARRONE, husband, KAREN MARRONE, wife, both individually and in their capacity as parents and guardians for VIDA MARRONE, a minor, and MATTHEW ADAM MARRONE,

Civil Action No.: 1:CV-01-0773

FILED

MARISBURG, PA

JAN 13 2003

Plaintiffs

vs.

ALLSTATE INSURANCE COMPANY,
LINDA M. EDLEMAN, FRED SCHAFER,
MT. GRETNNA REALTY, and HOUSE
MASTERS

JURY TRIAL DEMANDED

(U.S. District Judge Yvette Kane) *HY E. D'ANDREA, CLERK*
9/13

STATE OF NEW YORK)
)
COUNTY OF ALBANY)

AFFIDAVIT OF ECKARDT JOHANNING, M.D., M.Sc.

BEFORE ME, the undersigned authority, a Notary Public in and for the County and State aforesaid, personally appeared Eckardt Johanning, M.D., M.Sc., known to me (or satisfactorily proven) to be the person whose name is subscribed, and having been duly sworn, deposes and states under oath as follows:

1. I am above the age of 18, of sound mind and capable of executing this Affidavit.
2. My curriculum vitae establishing my competency as an expert is attached as exhibit 1.
3. The facts and opinions contained in my reports are based on my personal

knowledge and experience and are attached as exhibit 2.

12/3/02
DATE

Eckardt Johannig
Eckardt Johannig, M.D., M.Sc.

SWORN TO and SUBSCRIBED TO

before me this 6 day
January 2003
of November 2012.

Regina Gilligan-Baptista
(Notary)

REGINA GILLIGAN-BAPTISTA
Notary Public, State of New York
Residing in Albany County
Commission Expires September 30, 06

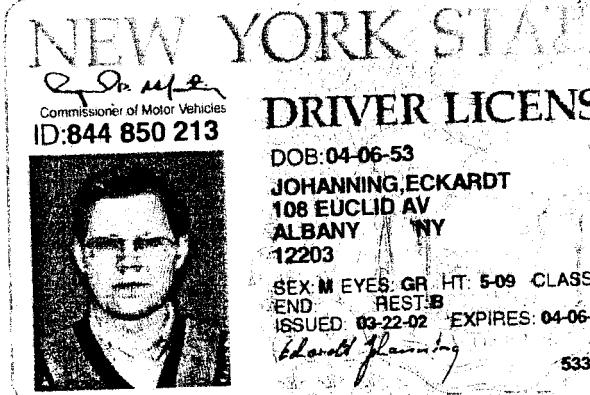


Exhibit 1

CURRICULUM VITAE

Dr. med. Eckardt Johanning, M.D., M.Sc.

Address: Occupational and Environmental Life Science - Fungal Research Group (FRG), Inc., 650 Warren Street, Albany, N.Y. 12203
eckardtjohanning@attglobal.net

Present Appointment: Private Practice, Medical Director, Fungal Research Group, Inc., Adjunct Instructor, Dep. Community Medicine, Mount Sinai School of Medicine, New York City

Previous Position: 1993-2000 Medical Director, Eastern New York Occupational and Environmental Health Center, Albany, N.Y.
1990-1993 Attending physician, Irving J. Selikoff Occupational Health Clinic Center, Mount Sinai Medical Center, New York, Instructor Dep. Community Medicine. Mount Sinai School of Medicine, New York

Education: 1964-1973 Georg Büchner Schule, Darmstadt, Abitur, Major in Mathematics/Natural Science
and 1978-1984 J.W. Goethe University, Frankfurt: Study of Human Medicine
Sociology
Medical Doctor (Arzt), October 1984

Scholarships "Villigst" scholarship for highly gifted students (1978-1984)
DAAD, ZENAF: US Research Scholarship 1982

Postdoctoral 1985-1988 State University of New York Training. Health Science Center of Brooklyn, New York , Residency training in Family Practice
1988-1990 Mount Sinai Medical School - City University of New York, Residency in Occupational and Environmental Medicine - Community Medicine

Degrees/Certifications:

Diplomat of the American Board of Family Practice (1988, recertified 1995, 2002)
Master in Community Science, 1990
Diplomat of the American Board of Preventive Medicine, Occupational Medicine, 1991

Dissertation (Ph.D), 1991 - J. W. Goethe University, Frankfurt, FR Germany:
Whole body vibration and back disorders. - magna cum laude -

Licensure N.Y.S. License No. 175278-1, DEA: BJ 1914363

Professional Societies American College of Occupational and Environmental Medicine
American Academy of Family Physicians
American Public Health Association
International Commission in Occupational Health, (ICOH)
(Committees: Organic Dust, Vibration)

Reviewer/Consultant: American Journal of Industrial Medicine
International Journal of Occupational and Environmental Health
National Sciences and Engineering Research Counsel of Canada
Journal for Sound and Vibration

Other/Miscellaneous: Listed among the "A Indoor Environment Power 50" in the US by Indoor Environment Review (August 1997, 1998).
Advisor to the Center for Disease Control and Prevention, Atlanta, Ga.
(Toxic mold infant investigation)
Advisor to Ontario Ministry of Health, Canada; participant of expert panel on toxigenic mold contamination indoors (2/99)
Consultant to the World Health Organization (WHO), Geneve, Suisse, (Bioaerosols) (2001/2)
Founder and principle organizer of the International Saratoga Springs, New York - Bioaerosols, Fungi and Bacteria, Mycotoxins Conferences (1994, 1996, 1998, 2000 in Helsinki, Finland (together with Healthy Buildings 2000)) which brought together a wide range of leading international researchers and health specialists devoted to public health and prevention.
Interviews/quotations by national broadcasting companies (ABC, NBC, CBS, CBC) and newspapers (NYT, USA-Today, Wall-Street Journal, etc.)

Awards: Public Service Award, Indoor Environment 1998; IAQ Publication, Inc.
Prof. B. Gedek - Mycotoxin Scientific Research Award, May 2002, The German Mycotoxin Research Association, Berlin, Germany.

Grant Support: -Occupational Health Clinic (Eastern New York Occupational and Environmental Health Center - Kaiser Permanente - Community Health Plan, Albany, N.Y.) New York State - DOH, BOH 96-2 (1997-2002)
-Assessment of respiratory exposure hazards in composting. CDC Announcement #738 (NIOSH, Morgantown, WV)
-Study of back disorders related to whole-body vibration and ergonomic hazards in locomotive engineers and conductors (supported by Brotherhood of Locomotive Engineers Legislative Board, N.Y.; Volpe Center; U.S. DOT)

Original Peer-Reviewed Reports, Books and Other Publications

- 1) Whole Body Vibration Exposure in Subway Cars and Review of Adverse Health Effects. Johanning E, Wilder D, Landrigan P, Pope MH. Journal of Occupational Medicine, Vol 33 No 5, 605-12, 1991
- 2) Survey Results of Back and Health Disorders in Whole-body Vibration exposed Subway Operators. Johanning E, Schechter C, Landrigan P. Revue d'epidemiologie et de sante publique. Vol. 40, suppl., S 129, 1992 / Archives des Maladies Professionnelles, Vol 53 p 591, 1992.
- 3) Survey Results of Back Disorders and Health Problems in Subway Train Operators Exposed to Whole-Body Vibration. E. Johanning Scandinavian Journal of Work, Environment and Health 1991;17:414-9
- 4) Asbestos Hazard Evaluation in South Korean Textile Production. Johanning E, Goldberg M, Kim R. International Journal of Health Service, Vol 24:1, 131-144, 1994.
- 5) Munich Mass Transit Operator Cardiovascular and Back Disorder Prevalence and Intervention Study. Johanning E, Landsbergis P, Geissler H, Karazmann R. International Journal of Occupational and Environmental Health (1996;2:79-87)
- 6) Health and Immunology Study following exposure to toxigenic fungi (*Stachybotrys atra*) in a water damaged office environment. Johanning E, Biagini R, Hull D, Morey P, Jarvis B, Landsbergis P., Archives of Occupational and Environmental Health (1996;68:207-218)
- 7) Vibration Study Johanning, E, Christ, E. American Industrial Hygiene Association Journal, Letter to the Editor (58) 261-2, April 1997
- 8) Whole-body vibration - call for occupational medical surveillance and prevention. Johanning, E. (1997) Journal of Occupational and Environmental Medicine. Letter to the Editor (39)11:1031-2
- 9) Building-related illnesses associated with moisture and fungal contamination - Current concepts. Johanning E, Auger P, Reijula K. Letter to the Editor - The New England Journal of Medicine, April 9, 1998, Volume 338, Number 15
- 10) Stachybotrys revisited Johanning E (1998) Clinical toxicology 36(6) 629-631
- 11) Back disorder intervention strategies for mass transit operators exposed to whole-body vibration - comparison of two transit system approaches and practices. Johanning E (1998) J Sound and Vibration 215(4) 629-634
- 12) (A comparison of occupational carpal tunnel syndrome notified in the Czech Republic and in the USA). Urban P, Johanning E, Lukas E, Tencza A. Pracov.(1998) Lek 50,4 175-80
- 13) Toxicity screening of materials from buildings with fungal indoor air quality problems (*Stachybotrys chartarum*). Johanning E, Gareis M, Yang CS, Hintikka EL, Nikulin M, Jarvis B, Dietrich R (1998) Mycotoxin Research, Vol 14 p60-73

14) *Clinical experience and results of a sentinel health event investigation related to indoor fungal exposure.* Johanning E, Landsbergis P, Gareis M, Yang CS, Olmsted E. Environmental Health Perspectives 1999 Jun;107 Suppl 3:489-494.

15) *Evaluation and management of occupational low back disorders.* Johanning E, Am J Ind Med. 2000 Jan;37(1):94-111.

16) *Whole Body Vibration Exposure in US Railroad Locomotives - An Ergonomic Risk Assessment.* Johanning E, Fischer S, Landsbergis P. Am Ind Hyg Ass Journal, 63:439-446 July/August 2002

Books/Chapters:

1) *Fungi and bacteria in indoor environments: Health effects, detection and remediation-* Proceedings from the international conference. Johanning E, Yang CS (ed.) Saratoga Springs, N.Y. 1995

2) *Asbestos Health Hazard Evaluation in South Korea: Asbestos Textile Manufacturing. Report to the Collegium Ramazzini.* Johanning E, Goldberg M. Mount Sinai Medical Center, New York.; in "Arbeitsschutz am Beispiel Asbest", Manuscript 67. H. Böckler Stiftung, Düsseldorf, 1992.

3) *Health problems related to fungal exposure - primarily of Stachybotrys atra.* In: Johanning E, Yang CS (ed) *Fungi and bacteria in indoor environments: Health effects, detection and Remediation* (Conference proceedings), Saratoga Springs, N.Y. 1995

4) *Noise, Vibration, and Heat and Cold* Schneider S, Johanning E, Belard L, Engholm G. In: Ringen K, Englund A, Welch L, Weeks JL, Seegal JL (eds) *Construction Safety and Health. Occupational Medicine: State of the Art Review.* 10:2, Hanley & Belfus, Philadelphia, 1995.

5) *Airborne Fungi and Mycotoxins (Health effects)* Yang C, Johanning E. In: Hurst CJ, Knudsen GR, McInerney, Stetzenbach LD, Walter WV (ed): *Manual of Environmental Microbiology.* ASM Press 1997

6) *Whole-body and segmental human vibration.* (Chapter 10) Johanning E, Christ E, Hulshof C. In: Dickerson B, Erdil M, Cumulative Trauma Disorders: Prevention, Evaluation and Treatment. Van Nostrand Reinhold, New York 1997

7) Allergene und giftige Schimmelpilze in Innenräumen. Johanning E. In: Diel, Feist, Krieg, Linden (ed): *Ökologisches Bauen und Sanieren.* C.F. Müller Verlag Heidelberg, 1997

8) *Schwingungsbelastungen und arbeitsmedizinische Massnahmen bei Schienenfahrern.* Johanning E (1998) VDI Berichte, Köln, Germany (VDI [Association of German Engineers]) 85-92

9) *Low back disorders and dentistry - stress factors and ergonomic intervention.* Johanning E, Bruder R (1998) In: Murphy DC (ed) *Ergonomics and the dental care worker.* American Public Health Association, Washington, D.C.

- 10) *Fungal and related exposures.* Johanning E (1999) In: Bowler RM, Cone JE (eds) Occupational Medicine Secrets. Henley & Belfus Publ., Philadelphia, Pa. 135-47
- 11) *Occupational Medicine for the Family Practitioner* Lomax J, Johanning E. (2001) Lippincott Williams & Wilkens Publ., Philadelphia, Pa.
- 12) Overview of waste management in the United States and recent research activities about composting related occupational health risks. Johanning E. In: Eikmann Th, Hofmann R. eds. (1999) Stand von Wissenschaft, Forschung und Technik zu siedlungsphysiognischen Aspekten der Abfallentsorgung und -verwertung. (Status assessment of science, research and techniques related to hygiene in waste-management and -use) Kommission Reinhaltung der Luft im VDI und DIN. Band 30. Schriftenreihe des Vereins für Wasser-, Boden- und Lufthygiene; 104, Berlin, Germany.
- 13) Bioaerosols, Fungi and Mycotoxins: Health Effects, Assessment, Prevention and Control. Johanning E, (editor) (with over 90 international authors), Eastern New York Occupational and Environmental Health Clinic, Mount Sinai School of Medicine, New York (2000)
- 14) Toxigenic Fungi and Health - Observation in an Occupational and Environmental Health Clinic. Johanning E, Gareis M, Dietrich R, Martlbauer, Morey P, Yang CS, Gordon W, Nielson K. In: Gesundheitliche Aspekte toxinogener Schimmelpilze in Gebäuden. Keller R, Senkpiel K. (Editors) Schriftenreihe des Instituts für Medizinische Mikrobiologie und Hygiene der Medizinischen Universität zu Lübeck. Heft 4 (2001)
- 15) *Fungi and Indoor Health* Johanning E, Ammann HM, In: The Encyclopedia of Environmental Microbiology. Bitton G. (Editor in Chief). Wiley, New York (2002)
- 16) *Mycotoxin and Indoor Health* Johanning E. In: Guidelines for Biological Agents in the Indoor Environment. Schwela D, (Editor in Chief), World Health Organization, Geneva, Switzerland. (In print)

Others:

Professional clean up of hazardous fungi, molds, and microbials in buildings after flooding and water leaks. Johanning E, Morey P. In: Cleaning & Restoration. The official Publication of the American Society of Cleaning and Restoration International. Vol. 35 2; 1998.

Abstracts, Lectures and Presentations:

- 1) *Drug Safety in the Elderly: Drug Interaction Screening with Computer Programs.* American Academy of Family Practice Annual Convention. Los Angeles, 9/1989.
- 2) *Vibration Hazards.* In "Challenges in Occupational Health in the 1990s: Repetitive Motion Injuries and Occupational Neurotoxicity". ERC Annual Scientific Meeting, New York 5/1990

- 3) *Etiological Factors for Low Back Pain in Subway Drivers.* Johanning E, Wilder D, Landrigan P, Pope MH. International Society for the Study of the Lumbar Spine. Boston, 6/1990
- 4) *Whole Body Vibration Exposure and Health Problems of Subway Operators.* American Public Health Association, Annual Meeting. New York, Oct. 1990.
- 5) *Lead Exposure and Protection Among Demolition Workers.* Goldberg M, Klitzman S, Lau S, Johanning E, Levin S. American Public Health Association, Annual Meeting. New York 10/1990.
- 6) *Clinical-epidemiological Investigation of Health Effects caused by Stachybotrys atra Building Contamination.* Johanning E, Jarvis BB, Morey PR. Indoor Air '93, Helsinki, Finland. 1993 4:311-316
- 7) *Remedial Techniques and Medical Surveillance Guidelines for the Handling of Toxigenic Stachybotrys atra.* Johanning E, Morey PR, Goldberg M. Indoor Air '93, Helsinki, Finland. 1993 1:225-31
- 8) *Fungi and Mycotoxin related Health Problems in Indoor Air Environments.* Johanning E. American Public Health Association (APHA), 121st Annual Meeting. Oct. 24-28, 1993
- 9) *Cancer Export: Asbestos Production in South Korea.* 6th Congreso Latinoamericano Y 8th Congreso Mundial de Medicina Social, Guadalajara, Mexico, March 1994.
- 10) *Medical Issues during Remediation of Toxic Mold, especially Stachybotrys atra.* Johanning E, Morey PR. American Industrial Hygiene Conference, Anaheim Ca., May 1994.
- 11) *Munich Transit Operator Cardiovascular Stress and Back Pain Intervention Study.* Johanning E, Landbergis P, Geissler H, Karazman R. American Public Health Association (APHA), 122st Annual Meeting. Washington D.C., Nov. 1994.
- 12) *Immunophenotyping of normal human worker volunteers: Distribution and range studies.* Biagini RE, Pinkerton LE, Johanning E, Hull RD, Luster MI. Society of Toxicology meeting. Baltimore March, 1994.
- 13) *Biological Toxicity Analyses of Mycotoxin Producing Fungal Samples from Field Studies.* Johanning E, Gareis M, Hintikka E, Nikulin M, Yang C (1995) American Industrial Hygiene Conference, Kansas City, Ms.
- 14) *Medical issues related to municipal waste composting.* Johanning E, Olmsted E, Yang C (1995) American Industrial Hygiene Conference, Kansas City, Ms.
- 15) *Toxic and irritant effects of biocontaminants.* Johanning E. (3/1996) Biological contamination of indoor environments. Symposium. MidAtlantic Environmental Hygiene Resource Center, University of Tulsa, US EPA, Region 9, San Diego, Ca.
- 16) *Gesundheitsprobleme durch/nach Pilzkontamination in Innenräumen - Ergebnisse von Feldstudien.* Johanning E, Gareis M, Hintikka EL, Jarvis B, Yang CS, Dietrich R. 18th Mycotoxin Workshop; June, 1996 Kulmbach, Germany,
- 17) *Inhalation risk of toxigenic bioaerosols, primarily of fungal origin - Clinical experiences and emerging issues.* Johanning E, Auger P, Gareis M, Aberman A, Mainville C. 25th International Congress on Occupational Health (ICOH), Stockholm, Sweden, September 1996
- 18) *Medical surveillance for composting workers* Johanning E, 25th International Congress on Occupational Health (ICOH), Stockholm, Sweden, September 1996
- 19) *Lead smelter exposure and residential blood lead levels: Lower levels related to improved environmental regulation and better control engineering in New York State?* Johanning E, Landbergis P, Tencza A, Burton N. American Public Health Association, Annual Meeting. New York, N.Y., November, 1996
- 20) *Toxic fungi in indoor environments: Results of sentinel health effect investigations.* Johanning E, Gareis M, Hintikka E, Jarvis B, Yang C. American Public Health Association= Annual Meeting. New York, N.Y., November, 1996

- 21) *Health effects of biocontaminants for building occupants: Occupational and Non-occupational exposure* Johanning E., Biological Contamination of Indoor Environments, MidAtlantic Environmental Hygiene Resource Center, Symposium, Chicago III, April 16-18, 1997
- 22) *Umweltmedizinische Aspekte bei allergischen und giftigen Schimmelpilzen in Innenräumen* [Environmental aspects of allergic and toxic fungi indoors] Johanning E, Arbeitsgemeinschaft Ökologischer Forschungsinstitute, Jahrestagung, Fulda, FR Germany, May 1997
- 23) *Ganzkörperschwingungen und Gesundheitsschutz für Fahrer im Nahverkehr* (Whole-body vibration and medical care for transport workers). VDI Vibrationmeeting >97, Verein Deutscher Ingenieure. Annual conference: Vibration at work and in the environment. Veitshöchheim, Germany, 9/97
- 24) *Vibration health hazards and prevention programs. A comparison of intervention strategies for mass transit drivers.* 8th International Vibration Conference, Southampton, UK, 9/97
- 25) *Clinical experience of diagnosis and treating patients with indoor fungal exposure.* Johanning E (1998) Abstract. Third International Conference on Bioaerosols, Fungi and Mycotoxins: Health Effects, Assessment, Prevention and Control, Saratoga Springs, New York. Eastern New York Occupational and Environmental Health Center, New York.
- 26) *Mycotoxin cytotoxicity screening of field samples.* Gareis M, Johanning E, Dietrich R (1998) Abstract. Third International Conference on Bioaerosols, Fungi and Mycotoxins: Health Effects, Assessment, Prevention and Control, Saratoga Springs, New York. Eastern New York Occupational and Environmental Health Center, New York.
- 27) *Cognitive impairment associated with exposure to toxigenic fungi (i.e. Stachybotrys atra): Results of a preliminary study.* Gordon W, Johanning E, Haddad L (1998) Abstract. Third International Conference on Bioaerosols, Fungi and Mycotoxins: Health Effects, Assessment, Prevention and Control, Saratoga Springs, New York. Eastern New York Occupational and Environmental Health Center, New York.
- 28) *The medical role of bioaerosols in indoor environments.* Johanning E (1998) De la prévention à la décontamination microbienne dans la bâtiments: aspect médicaux, juridiques et techniques. Natur=Air - Kiwatin, Montreal, Canada.
- 29) *Fungal remediation and worker=s health and safety.* Johanning, E. First NSF International Conference on Indoor Air Health, May 3-5, 1999. Denver, Co. (invited)
- 30) Mold and moisture problems in Indoor environments. Johanning, E. Bugs, mold and rot. Conference of building science. 1999 Washington D.C.(invited)
- 31) Overview of waste management in the United States and recent research activities about composting related occupational health risks. Johanning E. Status assessment of science, research and techniques related to hygiene in waste-management and -use. Federal Environmental Protection Agency of Germany. Langen, Germany, 30.8.-1.9.1999 (invited)
- 32) Occupational health care and prevention in a market economy - critical review of a model clinic in the State of New York, USA. Johanning E. 6th International Conferences. ICOH Scientific committee on health service research and evaluation in occupational health. Cancun, Mexico, Oct 12-14, 1999.
- 33) Indoor environmental health intervention study. Johanning E. American Public Health Association Annual Meeting. Chicago, Il. November, 1999 (invited).
- 34) Working with medical community. Johanning, E. Healthy Indoor Environments: Asthma and Allergen Control. Conference on May 10-13, 2000. Dallas, Tx. (University of Tulsa Indoor Air Program et al.)
- 35) Bioaerosol hygiene and medical surveillance. Johanning, E, Morey, P. American Occupational Health Conference (AOHC) 2000, May 12-19, 2000 in Philadelphia, Pa.

- 36) *Assessment of respiratory hazards in us composting facilities - exposure study.* Johanning E, VanRaalte J, Olmsted E, Hintz P, Yang CS, Sorenson B, Rylander R , Morey P, Gareis M, Maertlbauer E, Dietrich R . 26th International Congress on Occupational Health, Singapore, Sept. 2000
- 37) Mycotoxin air sampling in indoor environments with moisture related fungal contamination (*Stachybotrys atra*). Johanning E, Gareis M, Maertlbauer E, Dietrich R . 26th International Congress on Occupational Health, Singapore, Sept. 2000
- 38) *Whole-body vibration and ergonomic factors in modern US Railroad Locomotives.* Johanning E, Goeres B, Fischer S, Christ E. . 26th International Congress on Occupational Health, Singapore, Sept. 2000
- 39) *Mold and Mildew in Indoor Environments - Why the Big Fuzz and what we need to know about it.* American Public Health Association - Continuing Education Institute for the 128th Annual Meeting in Boston, Ma (Nov. 12, 2000)
- 40) *Indoor Health* - Keynote Address - 2nd NSF International Conference on Indoor Air Health. Miami, Fl. January 28-29, 2001.
- 41) "A look at Today's Building Occupants - Sensitivities in the Workplace" - Indoor Air Quality Management: What is a Reasonable Approach in Today's Society? Metropolitan New York AIHA Local Section Meeting. March 23, 2001.
- 42) *Mold and Public Health* - Keynote Address - 18 Annual Conference of the Environmental Information Association. March 25-28, 2001. Albuquerque, NM.
- 43) Mold and Mildew in Indoor Environments - CEI Course -American Public Health Association - Continuing Education Institute for the 129th Annual Meeting in Atlanta, Ge (Oct. 20, 2001)
- 44) *Molds and Bioaerosols.* 7th Annual Occupational Safety & Health Conference. 2001 Safety and Health Odyssey. Dep of Labor, New Jersey October 22, 2001.
- 45) *Airborne mycotoxin sampling and screening analysis.* E Johanning, M Gareis, K Nielsen, R Dietrich, E Märtaebauer, Indoor Air 2002, July 1-5, 2002, Monterey, Ca.
- 46) *Medical issues related to indoor mycotoxin exposure.* E. Johanning. VI. Conference on Mycotoxin in the Environment of People and Animals. Bydgoszcz, Poland (September 25-27, 2002)
- 47) Clinical experience and issues related to fungal indoor exposure. National Academy of Science "Damp Indoor Spaces" meeting. (invited expert testimony) Woods Hole, Mass. Oct. 8, 2002.

9/02

Exhibit 2

Eckardt Johanning, M.D., M.Sc.

Occupational and Environmental Life Science -
Fungal Research Group, Inc. (FRG)

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Albany, N.Y. 12208 U.S.A.
518-459-3336 • fax - 4646
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Offices:
Albany,
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Frankfurt/Main, FRG

October 21, 2002

RE: Jack P. Marrone
11673 Highway PT
Dixon, MO 65459
Date of Birth 2/22/46

I reviewed again the visit of Jack Marrone from January 17, 2002. This is a summary of the findings. I reviewed all provided outside medical reports and environmental findings, including the Advanced Applied Science report from October, 15, 2000.

Mr. Marrone, age 55, is a VA vet, with 100% disability since 1993 secondary to a gunshot wound, posttraumatic stress syndrome, and chloracne problems. He reported that after moving into and after doing some clean-up work inside the house on 354 Timber Rd, Mount Gretna, Pa, he developed a variety of problems including shortness of breath, eye irritation, chest tightness, wheezing, coughing, excessive fatigue, and nasal problems. He has been sneezing as well. He also developed an increased sensitivity and intolerance to gases, fumes, and a variety of air contaminants. He reports that his chloracne problem had been getting worse, and that he generally would look different. He reported that the special acne soap has not been helpful for him as in the past. He reported that he had not been seen at the time by his VA doctor and he had no special breathing test or chest x-ray test done. He left his home secondary to health concerns and findings of mold and moisture problems in his previous house. Since leaving this house, he felt much better. He stated that his breathing and fatigue had improved. He has less headaches.

Medications:

Trazodone.

Past Medical History:

Benign prostrate hypertrophy, exposure to Agent Orange resulting in chloracne development, posttraumatic stress syndrome, and gunshot wound. He had episodes of stomach cramps in the past. He denied any other significant abnormalities.

Past Surgical History:



Jack P. Marrone

2

October 21, 2002

Scrotal cyst surgery in 1976.

Social History:

He is a smoker starting at age 16, 1-1½ pack per day. He denied any alcohol or significant drug history.

He reported that he now has been living in Missouri, and that he feels much better there. In his current home there are no known environmental problems.

Physical Examination:

Blood pressure: 120/90 mmHg. Respiratory rate 12/min. Temperature 97 T. Height: 5'9". Weight: 201 pounds. His peak flow was found at 440.

Examination of head, ears, nose, throat, chest, abdomen, lungs, and extremities was overall unremarkable. The nasal passage showed increased erythema and were narrow.

Laboratory Tests:

On laboratory examination, he showed no reaction to specific IgE allergens; however, he had a marked reaction indicating significant organic dust exposure including to a variety of tested fungi, i.e., *Micropolyspora faeni*, *Aspergillus fumigatus*, *Aureobasidium pullulans*, *Penicillium notatum*, and *Trichoderma viride*. He also had elevated IgG and IgA response to *Stachybotrys chartarum*. These tests are used as exposure markers and do not necessarily correspond with disease activity.

Pulmonary function test from September 12, 2002 showed that he had overall normal lung function. Chest x-ray was negative.

Immunological test which included IgG subclasses and lymphocyte enumeration test and function test showed a slightly lower than normal absolute CD3 or matured T-lymphocyte cell count with 1462, normal 1507-1953. The remainder of the testing was normal. These findings are non-specific, but typical after intense fungal exposure.

I reviewed medical records provided to me by various providers. These records did not produce any additional information. He has been diagnosed in the past with prostatitis, hemorrhoids, stable COPD, and prostatitis problems.

The environmental investigation and report by Mr. R. Pfromm indicated the presence of moisture related fungi and defects inside the house, in particular in the basement. Fungi included species of *Aspergillus*, *Penicillium* and *Stachybotrys*, that were higher inside the house than outside (control). Photos were also provided confirming visible contamination.

Jack P. Marrone

3

October 21, 2002

Conclusion:

Based on recent findings, I conclude that Mr. Marrone had a respiratory reaction after intense exposure to mold and mildew in his home, which was probably also aggravated by doing some repair and clean-up work in the moldy house. He has been diagnosed in addition to his previous medical conditions with upper and lower airway inflammation and irritation effects (Rhinosinusitis, bronchitis) and mold allergy. With a reasonable degree of medical certainty I believe this was the result of the exposure in the described contaminated house. He has been advised that in the future he should avoid any of these problems since he has clearly been sensitized. Provided that he has no further exposure to the fungi, he should be reasonably well.

Sincerely,



Eckardt Johanning, M.D., MSc.
Diplomate of American Board of Preventive Medicine
(Occupational and Environmental Medicine)
Diplomate of American Board of Family Medicine

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Offices:
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October 21, 2002

RE:	Karen A. Marrone 11673 Highway PT Dixon, MO 65459
Date of Birth	12/22/56

I reviewed again the visit of Karen Marrone from January 17, 2002. She came accompanied by her husband and daughter Vida, who also were examined that day. This is a summary of the findings. I reviewed all provided outside medical reports and environmental findings, including the Advanced Applied Science report from October, 15, 2000.

Mrs. Marrone, age 45 years, has a known service related disability since 1976. She has been previously diagnosed with multiple sclerosis in 1977. She reported that after moving into the house on 354 Timber Rd, Mount Gretna, Pa, she developed a variety of problems including shortness of breath, chest tightness, coughing, excessive fatigue, and nasal problems, stomach cramps. She had been diagnosed by her VA physician Dr. DaCosta with sinusitis and bronchitis. She also consulted an ENT specialist who reportedly recommended surgery.

She and the rest of the family left this home October 14, 2001 secondary to health concerns and findings of mold and moisture problems in this house. Since leaving this house, she also felt much better.

Medications:

Albuterol, Ibuprofen, Baclofen, Clonazepam

Past Medical History:

Rubella 1972, MS 1977, PUD, reflux, esophagitis, rhinosinusitis since early 70s, PTSD in 80s. Allergy to penicillin.



Karen A. Marrone

2

October 21, 2002

Past Surgical History:

Gallbladder surgery 5/2000, hernia repair, cyst removal, laparoscopy.

Social History:

She is a smoker starting at age 15, 1-2 packs per day. She denied any alcohol or significant drug history.

She reported that she now living with her family in Missouri, and that she feels much better there. In this current home there are no known environmental problems.

Physical Examination:

Blood pressure: 120/90 mmHg. Respiratory rate 12/min. Temperature 99.8 T. Height: 5'5". Weight: 131 pounds. Her peak flow was 400 ml. She was coughing during the exam.

Examination of head, ears, nose, throat, chest, abdomen, lungs, and extremities was overall unremarkable. She had problems with line walking and imbalance.

Laboratory Tests:

No reaction to specific IgE and IgG fungal allergens.

Pulmonary function test was not done. Chest x-ray was negative.

Immunological test which included IgG subclasses and lymphocyte enumeration test and function test showed a higher than normal CD4/CD8 ratio and B-lymphocyte cell counts/percentage. The remainder of the testing was normal. These findings are non-specific, but typical after intense fungal exposure.

I reviewed medical records provided to me by various providers. These records did not produce any additional information.

The environmental investigation and report by Mr. R. Pfromm indicated the presence of moisture related fungi and defects inside the house, in particular in the basement. Fungi included species of *Aspergillus*, *Penicillium* and *Stachybotrys*, that were higher inside the house than outside (control). Photos were also provided confirming visible contamination.

Conclusion:

Based on recent findings, I conclude that Mrs. Marrone had an respiratory reaction after intense exposure to mold and mildew in her previous home. She has been diagnosed in addition to her previous medical conditions with upper and lower airway inflammation and irritation effects (Rhinosinusitis, bronchitis). With a reasonable degree of medical

Karen A. Marrone

3

October 21, 2002

certainty I believe these were the results of the exposure in the described contaminated house. She has been advised that in the future she should avoid any of these moldy indoor exposures and stop smoking. Provided that she has no further exposure to the fungi, she should be reasonably well related to this condition.

Sincerely,



Eckardt Johanning, M.D., MSc.
Diplomate of American Board of Preventive Medicine
(Occupational and Environmental Medicine)
Diplomate of American Board of Family Medicine

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October 21, 2002

RE: Vida A. Marrone
11673 Highway PT
Dixon, MO 65459
Date of Birth 5/5/84

I reviewed again the visit of Ms. Vida A. Marrone from January 17, 2002. She came accompanied by her parents, who also were examined that day. This is a summary of the findings. I reviewed all provided outside medical reports and environmental findings, including the Advanced Applied Science report from October, 15, 2000.

Ms. Vida Marrone, age 17 years, is a student who works part time as a waitress. She reported that after moving into the house on 354 Timber Rd, Mount Gretna, Pa, she developed a variety of problems including coughing, sore throat, fatigue, skin irritation, headaches and nasal problems. Away from the house (such as her friends' houses) she generally would feel much better. She had been diagnosed by an emergency room doctor with sinusitis and bronchitis.

She left with her family the house on October 14, 2001 secondary to health concerns and findings of mold and moisture problems. Since leaving this house, she also felt much better.

Medications:

None.

Past Medical History:

MVA 2/01 related low back pain.

Past Surgical History:

None



Vida A. Marrone

2

October 21, 2002

Social History:

She is a "very light" smoker (1-5 cigg./day). She denied any alcohol or significant drug history.

She reported that she is now living with her parents in Missouri, and that she feels much better there. In this current home there are no known environmental problems.

Physical Examination:

Blood pressure: 100/60 mmHg. Respiratory rate 12/min. Temperature 98 T. Height: 5'5". Weight: 138 pounds. Her peak flow was 550 ml.

Examination of head, ears, nose, throat, chest, abdomen, lungs, and extremities was overall unremarkable.

Laboratory Tests:

No reaction to specific IgE and IgG fungal allergens. There was a very minimal IgA elevation to *Stachybotrys* specific IgA.

Pulmonary function test and Chest x-ray were not done.

Immunological test which included IgG subclasses and lymphocyte enumeration test and function test showed a higher than normal T and B-lymphocyte cell counts/percentage. The remainder of the testing was normal. These findings are non-specific, but typical after intense fungal exposure and some immune reactivity. Follow up repeat evaluation have been recommended.

I reviewed medical records provided to me by various providers. These records did not produce any additional information.

The environmental investigation and report by Mr. R. Pfromm indicated the presence of moisture related fungi and defects inside the house, in particular in the basement. Fungi included species of *Aspergillus*, *Penicillium* and *Stachybotrys*, that were higher inside the house than outside (control). Photos were also provided confirming visible contamination.

Conclusion:

Based on recent findings, I conclude that Ms. Vida Marrone had also a typical acute respiratory reaction after intense exposure to mold and mildew in her previous home. She has been diagnosed with upper and lower acute airway inflammation and irritation effects (Rhinosinusitis, bronchitis). With a reasonable degree of medical certainty I believe these were the results of the exposure in the described contaminated house. She has been advised that in the future she should avoid any of these moldy indoor exposures and stop

Vida A. Marrone

3

October 21, 2002

smoking. Provided that she has no further exposure to the fungi, she should be reasonably well related to this condition.

Sincerely,



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Diplomate of American Board of Preventive Medicine
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October 21, 2002

RE:	Matthew Marrone 11673 Highway PT Dixon, MO 65459
Date of Birth	7/29/82

I reviewed again the visit of Matthew Marrone from January 17, 2002. This is a summary of the findings. I reviewed also the environmental findings, including the Advanced Applied Science report from October, 15, 2000.

Matthew Marrone, age 19, is a biology undergraduate student with no prior significant medical history. He reported that after moving into the house on 354 Timber Rd, Mount Gretna, Pa, in August of 1999 he developed shortness of breath, chest tightness, eye irritation, skin lesions under his axillae, excessive fatigue, nasal problems and significant memory loss. After leaving the house he had some improvement. At the time of the visit he was particularly bothered by joint pain in knees, memory problems and fatigue.

Medications:

None.

Past Medical History:

Benign. He denied any other significant abnormalities.

Past Surgical History:



Matthew Marrone

2

October 21, 2002

Social History:

He denied any smoking, alcohol or drug abuse history.

Physical Examination:

Blood pressure: 110/70 mmHg. Respiratory rate 12/min. Temperature normal Height: 5'10". Weight: 163 pounds. His peak flow was found at 450ml.

Examination of head, ears, nose, throat, chest, abdomen, lungs, and extremities was overall unremarkable.

Environmental Exposure:

The environmental investigation and report by Mr. R. Pfromm indicated the presence of moisture related fungi and defects inside the house, in particular in the basement. Fungi included species of *Aspergillus*, *Penicillium* and *Stachybotrys*, that were higher inside the house than outside (control). Photos were also provided confirming visible contamination.

Conclusion:

Mr. Matthew Marrone had a variety of health complaints including respiratory reactions that are in time and place associated with exposure to mold and mildew in his previous home. He has been advised that in the future he should avoid any of these fungal indoor exposures and related problems. He has been discharged for care and follow up by his local physicians. Provided that he has no further exposure to the fungi, he should be reasonably well.

Sincerely,



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